THE

ENTOMOLOGIST'S MONTHLY MAGAZINE

World List Abbreviation, 4th ed. (1963): Entomologist's mon. Mag.

EDITED BY

Prof. Sir Richard SOUTHWOOD, D.Sc., F.R.S., F.R.E.S.
M. G. MORRIS, M.A., Ph.D., F.I.Biol., F.L.S., F.R.E.S.
K. G. V. SMITH, C.Biol., F.I.Biol., F.L.S., F.R.E.S.
J. W. ISMAY, B.Sc., Ph.D., F.R.E.S.
P. M. HAMMOND, M.A., F.R.E.S.
W. R. DOLLING, B.Sc., F.R.E.S.

VOLUME 128

Library Services Centre

Pengage donc tous à éviter dans leurs écrits toute personnalité, toute allusion dépassant les limites de la discussion la plus sincère et la plus courtoise." — Laboulbène.

THE ENTOMOLOGIST'S MONTHLY MAGAZINE BRIGHTWOOD BRIGHTWELL, WALLINGFORD, OXON OX10 0QD 1992

CONTENTS

CONTRIBUTORS
GENERAL INDEX
SPECIAL INDEX -
ARACHNIDA
COLEOPTERA
DIPTERA
EPHEMEROPTERA
HEMIPTERA
HYMENOPTERA
ISOPTERA
LEPIDOPTERA
MANTODEA
ODONATA
PHASMIDA
PLECOPTERA
PSOCOPTERA
THYSANURA
TRICHOPTERA
GROUPS OTHER THAN INSECTA AND ARACHNIDA
ERRATA AND CORRIGENDA

DATES OF PUBLICATION

January/February/March/April30th April 1992May/June/July/August31st July 1992September/October/November/December30th November 1992

INDEX

This index covers the year 1992 (Vol. 128). Items occurring on the wrappers are indicated by Roman numerals. Prepared by Mrs A.V. Smith.

INDEX TO CONTRIBUTORS

Alexander, K.N.A., 258 Allen, A.A., 29, 41, 42, 85, 114, 136 Allen, G.W., 10 Allen, G.W., 10
Altenhofer, E., 99
Angus, R.B., 170
Archer, M.E., 51, 157, 218
Ashe, P., 146
Askew, R.R., 81, 119, 164, 215
Aukema, B., 11
Badmin, J., 9, 62, 118
Barnett, R.J., 206
Bland, K.P., 57
Booth, R.G., 93
Bouček, Z., 32
Boyce, D.C., 202 Boyce, D.C., 202 Bradbury, K., 77 Bradley, J.D., 94 Bragg, P.E., 129, 185 Buhl, P.N., 79 Butler, F.T., 164 Carles-Tolrá, M., 63 Carr, R., 170 Carter, D.J., 38, 92, 173 Chandler, P.J., 237 Colvin, M., 137 Colvin, M., 137 Cooper, M., 111 Cooter, J., 142, 183 Corbet, S.A., 229 Crellin, S.M., 69 Davies, L., 207 Deeming, J.C., 257 Disney, R.H.L., 39, 165, 219, 258 Drake, C.M., 171 Duff, A.G., 37, 85, 214 Fds 181 Eds, 181 Ellis, P.R., 1 Else, G.R., 43, 67 Fairhurst, C.P., 196 Field, J., 193 Frewin, G.L., 58 Fussell, M., 229 Gillies, M.T., 179, 206 Graham, M.W. R. de V., 15, 23, 75, 113, Hammond, P.M., 84
Harding, P.T., 196
Hardman, J.A., 1
Harkness, M.L. R., 147 Harkness, R.D., 147 Harris, K.M., 173 Harrison, T.D., 181

WTRIBUTORS

Hillyard, P., 236

Holmes, P. R., 202

Horsfield, D., 109, 196, 202, 236 Hunt, J.H., 139 Ismay, J.W., 95 Jeanne, R.L., 139 Jessop, L., 172 Jobe, J.B., 14 Kennaugh, J.H., 215 Kerzhner, I.M., 70 Kozanek, M., 59 Laurence, B.R., 207 Lyszkowski, R.M., 24 McClenaghan, I., 136 MacGowan, I., 24 Morris, M.G., 108, 136, 180, 213, 228 Morton, G., 96
Morton, G., 96
Murphy, J., 236
Nagatomi, A., 87
Nau, B.S., 11
Nelson, J.M., 71
O'Connor, J.P., 146, 164
Owen, J.A., 214, 225
Paultery, 203 Owen, J.A., 214, 225
Pawlyszyn, 203
Pont, A.C., 109
Quicke, D.L.J., 33
Reed, D.K., 202
Rotheray, G. E., 24, 57, v
Rudzinski, H.-G., 59
Saw, P.L., 1
Schonrögge, K., 99
Simmonds, M.S.J., 22, 30
Smith, A., 14 Smith, A., 14 Smith, D.A., 138 Smith, K.G.V., 10, 30, 46, 61, 74, 78, 95, 97, 98, 114, 138, 142, 169, 183, 206, 97, 98, 114, 138, 142, 169, 183, 206, 224, 235, 254, 257
Spriggs, A.H. Kirk-, 25
Taylor, S., 214
Varty, J., 77
Verdcourt, B., 184
Vickery, V.R., 255
Wallace, I.D., 202
Walsh, P., 14
Way, M.J., 179
Webb, M.D., 141
Welch, R.C., 118, 192
Whitehead, P.F., 31, 47, 112, 156, 184, 196
Winter, T.G., 170
Yang, D., 87
Young, D., 87

Aggregation of Anomoia purmunda (Harris) (Dipt., Tephritidae) on Galium verum L., 74 Australasian nocturnal Braconinae (Hym., Braconidae), 33

Behavioural differences between English and Japanese populations of Ammophila sabulosa (L.) (Hym., Sphecidae), 193

Berkshire, Agrilus pannonicus (Pill. & Mitt.) (Col., Buprestidae) in, 184

Biology and larval parasitoids of the leaf-mining sawflies Profenusa thomsoni (Konow)

and P. pygmaea (Konow) (Hym., Tenthredinidae), 99

Borneo, The phasmid Carausius abbreviatus (Brunner) from, including a description of the female, 129; the phasmid *Phenacarpus spinulosus* (Hausleithner) from, including a description of the female, 185

Bristol, records of Volucella zonaria (Poda) (Dipt., Syrphidae) in, 206

Britain, a meniscus midge (Dipt., Dixidae) new to, 165; a second record of Crypturgus subcribosus Eggers (Col., Scolytidae) in 170; Dolichovespula saxonica (F.) found breeding in, with nesting records of D. media (Retzius) (Hym., Vespidae), 137; further extension of the range of Dolichovespula media (Retzius) (Hym., Vespidae) in 1989 and 1990, in, 43; Megalonotus emarginatus (Rey) (Lygaeidae) and Trigonotylus caelestialium (Kirkaldy) (Miridae) (Hem.-Het.), new to, 11; Meligethes haemorrhoidalis Förster (Col., Nitidulidae) in, 25; Pteromalidae (Hym., Chalcidoidea) new to, with records of other uncommon species, 81; some old records of rare Carabidae (Col.) from western, 37; Tetrops starkii Chevrolat (Col., Cerambycidae) new to, 181; the distribution of Calliphora species (Dipt., Calliphoridae) in Ireland and, 207

British Isles, some notes on Sirocalodes mixtus (Muls. & Rey) (Col., Curculionidae) in

the, 180

British List, additions to the, of Entedon (Dalman) (Hym., Eulophidae) with descriptions of three new species, 119

British locality, Bruchela rufipes (Olivier) (Col., Anthribidae) at a second, with a note on the food plants of Sibinia primitus (Herbst) (Col., Curculionidae), 84 British Phronia Winnertz and Trichonta Winnertz (Dipt., Mycetophilidae), a review of

the, 237

British species, Hydrosmectina septentrionum Benick, not H. subtilissima (Kr.) (Col., Staphylinidae), a, 42; of Semiotellus Westwood (Hym., Pteromalidae), 215; Thricops genarum (Zetterstedt, 1839) (Dipt., Muscidae) confirmed as a, 109

Buckinghamshire, Phytoecia cylindrica (L.) (Col., Cerambycidae) in the Gloucester-

shire/Wiltshire area and, 258

Buddleja globosa Lam., Cionus scrophulariae (L.) (Col., Curculionidae) feeding on, 254 Charnwood Forest, Leicestershire and Lydford Moorland, Devon, a comparison of the solitary wasps and bees (Hym., Aculeata) of, 51

Chinese Rhagina (Dipt., Rhagionidae), a study on the, 87

Cornwall, Aleochara diversa (J. Sahlberg) 1876 (Col., Staphylinidae) new to both Worcestershire and, 156

Correction to a recent publication (Hym., Pteromalidae), 32

Denmark, a new species of Polypeza (Hym., Diapriidae, Belytinae) from, 79

Diagnostic characters of Monodontomerus obscurus Westwood, 1833 and M. aeneus (Fonscolombe, 1832) (= obsoletus (Fabricius, 1798), preocc.) (Hym., Torymidae), 143

Dorset, a belated record of Copris lunaris L. (Col., Scarabaeidae) from, 58; Apion (Kalcapion) semivittatum Gyll. (Col., Apionidae) in, 108; Microsporus acaroides (Waltl) (Col., Microsporidae) in, 214

Dublin, Drosophila repleta Wollaston (Dipt., Drosophilidae), an unsavoury find in a pub,

Early stages and biology of the dung-fly Acanthocnema glaucescens (Loew) (Dipt.,

Editorial - Henry Tibbats Stainton, F.R.S., 181

England, the occurrence of Pterostichus rhaeticus Heer (Col., Carabidae) in southwest, 170; two little-known wasps: Homonotus sanguinolentus (F.) and Euodynerus quadrifasciatus (F.) (Hym., Aculeata) in southern and a review of their occurrence in Britain, 67

English record of Neochalcis fertoni (Kieffer) (Hym., Chalcididae), 164; [English] and Japanese populations of Ammophila sabulosa (L.) (Hym., Sphecidae), behaviourial differences between, 193

Essex, Keroplatus testaceus Dalman (Dipt., Mycetophilidae) in, 138

European, Psilocera (Hym., Pteromalidae), second revision of, with descriptions of three new species, 15; Pteromalidae (Hym., Chalcidoidea), two new species of, 115; species of the genus Conomorium Masi, 1924 (Hym., Pteromalidae) including one new to science, 197

Forster, J.R. (1770), new taxa of insects (Col., Hym.) established by, 70

France, a new species of Synedrus (Hym., Pteromalidae) from, 23; a new species of Zdenekiana Huggert (Hym., Pteromalidae) from, 113

Further observations of Nitela borealis Valkeila (Hym., Sphecidae), 10

Further records of Tropideres niveirostris (F.) (Col., Anthribidae), 114; two littlerecorded Nitidulidae (Col.), 29 Galium verum L. [ladies' bedstraw], an aggregation of Anomoia purmunda (Harris)

(Dipt., Tephritidae), on, 74

Gender and derivation of the name Omophron (Col., Carabidae), 85

Gloucestershire/Wiltshire area, Phytoecia cylindrica (L.) (Col., Cerambycidae) in the Buckinghamshire and, 258

Goat moth (Cossus cossus L.), national distribution of the, appeal for records, xvii Greece, predation of an ant (Cataglyphus bicolor (F.), Hym., Formicidae) by a spider

(Zodarium frenatum (Simon), Araneae, Zodariidae) in, 147

Herefordshire, Xyletinus longitarsus Jansson (Col., Anobiidae) in, 183

Host plants of Eupteryx atropunctata (Goeze) (Hem., Cicadellidae), 62; of the carrot fly Psila rosae (F.) (Dipt., Psilidae), 1

How rare is Paykullia maculata (Fallén) (Dipt., Rhinophoridae)? 46

Huntingdon, Badonnelia titei Pearman (Psocoptera, Sphaeropsocidae): alive and well at Monks Wood Experimental Station, 118

Identity of Centrobia fumipennis Blood, 1923 (Hym., Trichogrammatidae), 75 India, beetles (Col., Scarabaeidae) in a social wasp nest (Hym., Vespidae) in, 139 Inverness-shire, Stenus glacialis Heer (Col., Staphylinidae) on Creag Meagaidh, 196 Ireland, the distribution of Calliphora species (Dipt., Calliphoridae) in Britain and, 207

Irish Pimplinae (Hym., Ichneumonidae), notes on some interesting, 164 Isle of Man, some Aculeata Hymenoptera new to, 69

Isles of Scilly, notes on two Homoptera new to the, 62

Japanese, behavioural differences between English and Japanese populations of

Ammophila sabulosa (L.) (Hym., Sphecidae), 193

Kent, a belated record of Cossonus linearis (F.) (Col., Curculionidae) from East, 213; an overlooked record of Procas armillatus (F.) (Col., Curculionidae) from West, 136; horse-chestnut scale *Pulvinaria regalis* Canard (Hem., Coccidae) in, 118 Korea, Sarcophagidae (Dipt.) from, 59

London area, new records of Eustalomyia hilaris Fall. (Dipt., Anthomyiidae) in the with notes on a marked difference in habits in this and other lignicolous genera, 41 Lydford Moorland, Devon and Charnwood Forest, Leicestershire, a comparison of the

solitary wasps and bees (Hym., Aculeata) of, 51 Malaysia, a further new species of *Rhynchomicropteron* (Dipt., Phoridae) from, 219 Male of Anacrabro eganus Leclercq (Hym., Sphecidae): and more on the mesopleural

process of some male Anacrabro, 111

Mantids catching humming birds, 257 Middlesex, Chrysolina oricalcia Mull. (Col., Chrysomelidae) in north London and Oxford, 114; Euthyneura halidayi Collin (Dipt., Empididae) in north London, 30; Keroplatus testaceus Dalman (Dipt., Mycetophilidae) in north London, 138

m.v. light, Oligella intermedia Besuchet (Col., Ptiliidae) at, 136

Nest relocation in the British hornet Vespa crabro gribodoi Bequaert (Hym., Vespidae),

Nigeria, confirmation of the presence of the mosquito Aedes mucidus (Karsch) (Dipt., Culicidae) in, 257

Nocturnal Australasian Braconinae (Hym., Braconidae), 33

Northamptonshire localities, Planeustomus palpalis (Er.) (Col., Staphylinidae) from

Notable records of Coleoptera, 184

OBITUARIES - Mrs M.E. Hobby, 95; Douglas Keith McEwan Kevan, 255; Arthur Smith, 173

Observations on Patrobus Stephens (Col., Carabidae) and a beetle fauna dominated by

Oxford, Chrysolina oricalcia Mull. (Col., Chrysomelidae) in, 114

Patrolling behaviour of male bumblebees (Hym.), observations on, 229

Pear tree, Lepisma saccharina L. (Thysanura, Lepismatidae) breeding on a, 196 Pupal sounds, ultrasonic components of the, of Lycaena phlaeas (L.) (Lep., Lycaeni-

dae), 77

REVIEWS - Albatercedor, J. & Sanchez-Ortega, A. (eds), 1991, Overview and Strategy of Ephemeroptera and Plecoptera, 206; Askew, R.R., 1990, Identification Chart of British and Irish Dragonflies, v; Bulletin of the British Museum (Natural History), Historical Series, 1989–1991, 97; Cherepanov, A.I., 1990, Cerambycidae of Northern Asia: Vol. 1, Vol. 2 (Pts I & II), Vol. 3 (Pts I, II & III), 93; Collins, N.M. & Thomas, J.A. (eds), 1991, The Conservation of Insects and their Habitats, 171; Dent, D., 1991, Insect Pest Management, 179; Drake, C.M., 1991, Provisional Atlas of the Large Brachycera (Diptera) of Britain and Ireland, xi; Emmet, A.M., 1991, The Scientific Names of the British Lepidoptera, their History and Meaning, 61; Falk, S., 1991, A Review of the Scarce and Threatened Flies of Great Britain, Pt 1, 235; Fryer, G., 1991, A Natural History of the Lakes, Tarns and Streams of the English Lake District, 258; Goodman, L.J. & Fisher, R.C., 1991, The Behaviour and Physiology of Bees, 178; Gupta, A.P. (ed), 1990, 1991, Morphogenetic Hormones of Arthropods, Vol. 1 (Pts I & II), 22; Hanski, I. & Cambefort, Y. (eds), 1991, Dung Beetle Ecology, 172; Harding, P.T. & Green, S.V., 1992, Recent Surveys and Research on Butterflies in Britain and Ireland, xi; Heimer, S. & Nentwig, W., 1991, Spinnen Mitteleuropas: Ein Bestimmungsbuch, 236; Hubbard, M.D., 1990, Mayflies of the World - A Catalog of the Family and Genus Group Taxa (Insecta: Ephemeroptera) (Flora & Fauna Handbook No. 8), 179; Institute of Terrestrial Ecology, xi; Kudrna, O. (ed.), 1990, Butterflies of Europe, Vol. 2, 38; Lunt, G.G. & Olsen, R.W. (eds), 1988, Comparative Invertebrate Neurochemistry, 30; Medvedev, G.S., 1990, Keys to the Insects of the European part of the USSR, Vol. IV, Lepidoptera, Pt II, 94; O'Connor, M., 1991, Writing Successfully in Science, 183; O'Toole, C. & Raw, A., 1991, Bees of the World, 224; Riley, A.M., 1991, A Natural History of the Butterflies and Moths of Shropshire, 169; Rognes, K., 1991, Blowflies (Diptera, Calliphoridae) of Fennoscandia and Denmark (Fauna Ent. Scand., 24), 142; Shaw, M.R. & Huddleston, T., 1991, Classification and Biology of Braconid Wasps (Hymenoptera, Braconidae) (Handbk Ident. Br. Insects), 10; Shire Natural History Series, xi; Sutton, S.L. & Beaumont, H.E., 1989, Butterflies and Moths of Yorkshire: Distribution and Conservation, 92; Thomas, J. & Lewington, R., 1991, The Butterflies of Great Britain and Ireland, 98; Williams, D.J. & Granariade Willink, H.C., 1992, Mealybugs of Central and South America, xvii; Wilson, M.R. & Claridge, M.F., 1991, Handbook for the Identification of leafhoppers and planthoppers of rice, 141

Scale insect (Hem.-Hom., Eriococcidae), a further record of a scuttle-fly (Dipt., Phoridae) parasitising a, 39

Scotland, Alheta hansseni Strand (Col., Staphylinidae) in Strathspey, 214; Gymnetron beccabungae (L.) (Col., Curculionidae) in, 228; Spilogona scutulata (Schnabl) (Dipt., Muscidae) new to, 236; Stenus glacialis Heer (Col., Staphylinidae) on Creag Meagaidh, Inverness-shire, 196; the goat moth (Cossus cossus (L.), Lep., Cossidae) and associated insects in, 24; Trechus secalis Paykull (Col., Carabidae) in Northern. 14; Xanthandrus comtus (Harris) (Dipt., Syrphidae) breeding in, 58

Scottish Insects, Initiative for, v

Spain, new species of Carnidae and Lauxaniidae (Diptera) from, 63

Sussex, Baris scolopacea Germar (Col., Curculionidae) in West, 142 Taxonomy of Vespa crabro L. and V. dybowskii André (Hym., Vespinae), 157

Thuja plicata D. Don., Elasmostethus (Cyphostethus) tristriatus (F.) (Hem., Pentatomidae) on, 136

Ultrasonic components in the pupal sounds of Lycaena phlaeas (L.) (Lep., Lycaenidae),

Wales, Oxyethira mirabilis Morton (Trichopt., Hydroptilidae) found in, 202

Washing compounds, bark beetles (Col., Scolytidae) attracted to domestic, 196

Welsh sand dunes, notable wasps and bees (Hym., Aculeata) taken on, and a plea for help, 218

Western Europe, Psylla pulchella Löw (Hem., Psyllidae) in, 9

Wiltshire/Gloucestershire area, Phytoecia cylindrica (L.) (Col., Cerambycidae) in

Buckinghamshire and the, 258

Worcestershire, Aleochara diversa (J. Sahlberg) 1876 (Col., Staphylinidae) new to both Cornwall and, 156; Onthophagus fracticornis (Preyssler) and O. nutans (F.) (Col., Scarabaeidae) as fossils in, with comments on the genus, 31; the Coleoptera fauna from Broadway, 47

Yorkshire, Dorcus parallelipipedus (L.) (Col., Lucanidae) in North, 14

SPECIAL INDEX

New genera, and species, etc., are indicated by heavy type; genera and species new to Britain by an asterisk (*).

ARACHNIDA

Arachnida 22 Cheiracanthium 67 mites 22 oribatid mites 214 spider's web 257 spiders 236 Zodarium frenatum 147–56

COLEOPTERA Acrantus vittatus 196 Acritus nigricornis 50 Acrotrichus fascicularis, grandicollis 136; montandoni 47, 136; sanctaehelenae 47; sericans, thoracica 136 Aderus populuens 49 Agathidium marginatum 184 Agrilus pannonicus 184 Agriotes gallicus 74 Alcides affaber 36 Alcides affaber 36 Aleochara diversa 48, 156; sparsa 156 Alosterna 93 Alphitophagus bifasciatus 49 Amara acuminata, aenea, eurynota, montivaga, nitida v. imbella, trivialis Amischa cavifrons, soror 48 Anopleta 225 Anoplodera 93 Anotylus clypeonitens, hamatus 48 Anthicus tobias 49 Anthribus fasciatus, nebulosus 70 Aphthona euphorbiae 49 Apion meliloti 124; nigritarse 49; semivittatum 108; urticarium 124, 126; spp. 124 Aromia moschata 184 Aseminae 93 Astenus pulchellus 48 Atheta alpina 226; atricolor 48; boreella 225-7; excelsa 225, 227; hansseni 214; harwoodi 48; liliputana 225-7; nidicola, puberula, pygmaea, rivilla 48; soedermani 225-7; spatula 227; spatuloides 225-7; vilis 192 Atomaria berolinensis, munda 49 Baris lepidii 184; picicornis 84; scolopacea Belonogaster petiolata 140

Bembidion 85; quadrimaculatum, quadripustulatum, testaceum 184

Brachypterolus cornelii, linariae,

Bledius opacus 48

pulicarius 29

Bruchela rufipes 84 Bryaxis curtisi 48 Campsiura javanica 139 Carabus intricatus 37 Catops grandicollis, kirbii 47 Cerambycidae, Cerambycinae 93 Cetonia aurata 74 Ceutorhynchus 180; thomsoni 49 Chaetocnema arida 49 Chrysolina oricalcia 50, 114; o. var hobsoni 114 Cionus scrophuliariae 254 Cistela fasciata, nigra, pustulata 70 Cleopus pulchellus 254 Colenis immunda 47 Colenis immunda 47 Coleoptera 68 Compsochilus palpalis 192 Copris lunaris 58 Coprophilus striatulus 48
Corticarina similata 49
Cossonus linearis 213 Cossonus linéaris 213
Cremastocheilus spp. 140
Creophilus maxillosus 48
Cryptophagus populi 184
Cryptopleurum subtile 47
Crypturgus subcribrosus 170
Ctesias serra 196
Curculio betulae 184 Curculio betulae 184 Curculionidae 104 Dexional acorticina 184 Dilacra s.g. 192 Disteninae 93 Dorcatoma dresdeni, flavicornis 49; spp. Dorcus parallelipipedus 14 Dropephylla vitis 24 dung beetles 172 Elaphrus 85 Elaphrus 85
Euphoria 140
Euphoriaspis hirtipes 140
Grynobius planus 48
Grynos equiscti 49 Grypus equiseti 49 Gymnetron beccabungae 228; pascuorum Gyrophaena joyi 48 Halyzia sedecimguttata 184 Harmonia quadripunctata 49 Harpalus 85 Helophorus rufipes 47 Heterothops praevius 48 Holoparamecus caularum 49 Homophron 85 Hoplostomus fuligineus 140 Hydnobius punctatus 47 Hydraena pigrita 47 Hydraena nigrita 47

Byrrhus fasciata, fasciatus, nigra, pilula,

pustulata, pustulatus 70 Bythinus burrelli 48 Calathus ambiguus 184

Callicerus obscurus 48

Hydrosmectina septentrionum, subtilissima 42 Hypera nigrirostris 49 Kalcapion s.g. 108 Kissophagus hederae 50 Lamiinae 93 Leptinus testaceus 47 Lepturinae 93 Lissodema cursor, quadripustulata 184 Lithocaris ochracea 48 Longitarsus ganglbaureri 50 Magdalis armigera, barbicornis 49 Malacopteryx aeneus, biguttatus, bipustulatus caerulens(?), fasciatus, fuscus, lividus, melanurus, minimus, navalis, obscurus, rufus, testaceus 70 Mecinus collaris 123 Melanotus erythropus 48, 50; villosus 48 Meligethes atramentarius 28; difficilis 25; haemorrhoidalis 25-8; kunzei 28 Meloe rugosus 50 Microdota 225-7 Microsporidae 214 Microsporus acaroides 214 Monotoma spinicollis, testacea 49 Mordella aculeata, villosa 74 Mycetophagus piceus 184 Nebria brevicollis 112 Nephanes titon 136 Nephus redtenbacheri 49 Neuraphes elongatulus 48 Niptus hololeucus 49 Nitidula rufipes 184 Ochthebius bicolor 47 Oligella intermedia 136 Oligota pusillima 48 Omalium oxyacanthae 48 Omophron 85-6

Onthophagus coenobita 32; fracticornis, furcatus, gibbulus 31; joannae 31-2; nutans, taurus 31

Opilo mollis 49 Orthotomicus laricis 170 Parabathyscia wollastoni 50 Patrobus assimilis, atrorufus 112 Philonthus nigriventris 50 Phloeophagus truncorum 49 Phloeophthorus rhododactylus 50 Phyllodrepa floralis 48 Phyllotreta nodicornis 84 Phytoecia cylindrica 258 Pityogenes 82; bidentatus 170; spp. 81–2 Planeustomus palpalis 192 Platystomos albinus 114 Pocadius ferrugineus 29; lanuginosus 29,

Polygraphus poligraphus 170 Potosia 140 Prioninae 93 Prionychus melanarius 49 Procas armillatus, granulicollis 136 Protaetia 140 Pseudalosterna 93

Ptenidium formicetorum 136, fuscicorne 214; intermedium 47; laevigatum 136; punctatum 47; pusillum 136 Pterostichus cristatus 184; nigrita, rhaeticus 170 Ptilinus 81 Ptiliolum spencei 136 Ptilium exaratum 136; horioni 47 Ptinomorphus imperialis 48 Ptinus sexpunctatus 196 Quedius fulgidus 24; invreae, microps, obliteratus 48; plagiatus 24 Reichenbachia juncorum 48 Saperda 93 Scolytus 85; limbatus 86; multistriatus, scolytus 196 Scymnus haemorrhoidalis, suturalis, 49 Sepedophilus immaculatus 48 Sibinia primitus 84 Silvanus bidentatus 184 Sinodendron cylindricum 24 Sirocalodes depressicollis, mixtus, quercicola 180 Sitona ononidis 184 Soronia grisea, punctatissima 24 Sphaeriidae, Sphaerius 214 Stenagostus rhombeus 50 Stenichnus scutellaris 47 Stenus glacialis 196 Tachys 85 Tetrops praeusta, *starkii 181-2 Thanasimus formicarius 196 Tomicus piniperda 196 Trachys scrobiculatus 184 Trechus micros 47; secalis 14 Tropideres niveirostris, sepicola 114 Trox scaber 196 water beetles 171 Xantholinus laevigatus 48 Xyletinus longitarsus 183 Zeugophora subspinosa 184

DIPTERA

sternalis 71 Acroceridae 235, xi Acrophaga 210 Aedes mucidus 257 Alloeostylus sundewalli 109 Amobia distorta 60 Angiometopa mihalyi 60 Angioneura 142 Anomoia purmunda 74, 196 Athyrsomima stackelbergi 59-60 Asilidae 235 Bercaea haemorrhoidalis 59-60 Blaesoxipha filipjevi, katoi, litoralis 60; sp. 61 Boettcherisca peregrina 59-60

Acanthocnema glaucescens 71-3;

Bolitophila nigrolineata 246 Bombyliidae 235, xi Brachycera xi Brachyopa insensilis, pilosa 24 Calliphora alpina 211; loewi 208–9, 212; stelviana 211; subalpina 210-2; uralensis 207-8, 212; vicina, vomitoria 207, 211-2 Calliphoridae, Calliphorinae 142 Chrysominae 142 Clinoceroides 71 Coenosia means, mollicula 109 Coniophora graminicola 216 Conjosternum 73 Conopidae 235 Conops flavipes 74 Desmomyia 87 Dixella filicornis 165-7; *graeca, obscura 165 - 8Drosophila repleta 146 Eggisops 142 Eustalomyia festiva, hilaris, histrio 41–2 Euthyneura halidayi 30 Ferdinandea 41; cuprea 24 Gymnoselia 220, 224 Helicoboscinae 142 Helicophagella melanura 59-60 Helina consimilis, evecta 109 Hemeromyia longirostris, remotinervis Heteronychia obscurata 60; vagans 59-60 Horiisca hozawai 60 Kerophora brunnea 39-40 Keroplatus testaceus 138 Kramerea schuetzei 60 Lasiops sundewalli 109 Lonchaea 41-2 Lucilia 212 Lucilinae 142 Mayetiola phalaris 216 Megaselia chainensis, rufa 40 Melanomya, Melanomyinae 142 Melinda 142 Metopia argyrocephala, stackelbergi 60 Metopinae 220 Morinia 142 mosquitoes 97 'Neorhagio' 87 Parafeburia 46 Parasarcophaga albiceps 59-60; brevicornis, crassipalpis, gigas 60; harpax 59-60; jacobsoni, kanoi, knabi, macroauriculata, misera, orchidea 60; pingi 59-60; polystylata, shiritakensis 60; similis 59-60; tuberosa, unguitigris

Paykullia maculata 46 Phagocarpus (s.g.) 196 Phallantha sichotealini 60 Phallosphaera gravelyi 60 Phora holosericea 40

Phorinae 220

Phronia annulata 252; austriaca 244, 253; basalis 252; biarcuata 237, 244, 252; bicolor 237-8, 243, 247-50, 252; braueri 252; caliginosa 238, 245, 252; cinerascens, conformis 252; coritanica 238, 248-52; cornuta 244; crassipes 247-9, 252; crassitarsus 238, 247-50; disgrega 252; egregia 238, 244–5, 252; electa 238, 245, 252; exigua 252; flavicollis 244, 253; flavipes, forcipata 1837(2018) 244, 255; Raypies, forcipata 252; forcipula 242, 252; gagnei 238, 248, 251–3; humeralis, 243, 252; interstincta 252; johannae 237, 244, 252; laffooni 245; longelamellata 238, 245–6, 252; mutabilis 238, 246, 252; mebulase 244; nigrisografis 255; nebulosa 244; nigricornis 252 nitidiventris 252+3; notata 253; obtusa 246, 253; persimilis 237, 244, 253; petulans 238, 243-4, 246, 253; portschinskyi 238, 253; praecox 237, 244, 252; siebeckii 245, 253; signata 243-4, 253; sinuata, strenua 244, 253; sudetica, sylvatica 238, 247, 253; taczanowskyi 237, 243; tarsata 237-8, 249, 252; tenuis 253; triangularis 253; trivittata 245 Pierretia caudagilli, crinitula, josephi, kayaensis 60; ugamskii 59-60; sp. 59 Plastophora 39-40; subconvexa 40 Plesina 46 Pollenia intermedia, labialis 142 Polleniinae 142 Psila rosae 1-9 Ravinia striata 60-1 Rhagina incurvata 87; sinensis 88-90; sp. 88, 90-1 Rhagio 87 Rhagionidae 235, xi Rhiniinae 142 Rhinophora lepida 46 Rhinophorinae 142 Rhynchomicropteron curvescens 224; dudichi 221; micraphidiforme 219-20; necaphidiforme 221-4; nudicosta 224; nudiventer 221-4 Robineauella pseudoscoparia 60 Sapromyza laevatrispina 65-7; parallela 64–5; quadricineta 65–6 Sarcophaga albiceps 41 Sarcorohdendorfia aurata 60 Scenopinidae 235, xi Sciomyzidae 235 Sinonipponia erecta, musashinensis 60 Sitodiplosis sp. 216 Spilogona denigrata 109; scutulata 236 Stratiomyidae 235, xi Styloneuria stackelbergi 60 Syneura cocciphila 39 Syrphidae 184, 235 Tabanidae 235, xi Takanoa hakusana 60 Tephritidae 235 Therevidae 235, xi

Thricops cunctans 109; genarum 109–10; semicinereus 109 Tipulidae 235 Tricholioproctia antilope 60 Trichonta apicalis 239-40, 243; atricauda 239, 243; bicolor 243; **brigantia** 238, 241–3; clavigera 238–40, 243; falcata 242–3; fissicauda, flavicauda 243, foeda 239, 243; fragilis 238, 242–3; fusca 238, 243; fusciventris 242; hamata 243; icenica 239, 242-3; melanura 239, 243; melanopyga 243; nigritula 238-40, 243; pulchra 238, 240, 243; stereana 239, 243; subfusca 243; submaculata 238, 241, 243; terminalis 239, 243; venosa 243; vernalis 239, 243; vitta 238–41; vulcani 237, 243

Ulidia erythrophthalma 74 Villa hottentotta 74 Volucella zonaria 206 Xanthandrus comtus 57 Xylomyidae 235, xi Xylophagidae 235, xi Xylota 41

EPHEMEROPTERA

Ephemeroptera 179, 206 Hermanella 206

HEMIPTERA

Balclutha alstoni, rieki 141 Brachycaudus helichrysi 40 Colopha ulmicola 40 Cyphostethus s.g. 136 Elasmostethus tristriatus 136 Eulecanium coryli, tiliae 40 Eupteryx atropunctata, filicum 62 Forda formicaria 40 Gobaishia 40 Icerya braziliensis, purchasi 39 Kaltenbachiella pallida 40 Kermes 39 leafhoppers 141 mealybugs xvii Megalonotus chiragra, *emarginatus, sabulicola 11-2 Neocoelostoma sp. 39 Nilaparvata lugens 141 Parthenolecanium corni 40 Pemphigus fuscicornis, lichtensteini 40 planthoppers 141 Psylla concinna, pulchella 9 Pulvinaria regalis 118 Stenocranus longipennis 62 Trigonotylus *caelestialum 12-3; coelestialum' [incorrect], ruficornis 12

HYMENOPTERA

Ablaxia anaxenor 83 Aenictus sp. 222

Ammophila campestris 193; infesta 193-4; pubescens, sabulosa 193; s. infesta, s. nipponica, s. sabulosa 193, 195

Anacrabro eganus, fritzi 111-2 Ancistrocerus gazella, nigricornis 56; oviventris 56, 58; parietinus, parietum

56; quadratus 53; scoticus, trifasciatus

Andrena angustior, barbilabris, bicolor, chrysosceles, cineraria, clarkella, coitana, dorsata, fucata, fulva, haemorrhoa 57; humilis 53, 57; labiata, lapponica, nigroaenea 57; ocreata, praecox 53; pubescens, saundersella, scotica, subopaca, tarsata, wilkella 57

Andrenidae 52 Anoplius nigerrimus 56 Anthidium manicatum 57

Anthophora furcata, plumipes 57; retusa

Anthophoridae 52 ant larvae 140

Aphrastobracon flavipennis 35 Apsilocera bramleyi 83

Arachnospila anceps, spissa 56; wesmaeli

Argogorytes mystaceus 56 Atelopsilus borealis 79 bee hives 140 bees 178, 224

Belonogaster petiolata 140 Belyta ciliata 79

Bombus hortorum 229, 232-4; lapidarius 229, 231, 233-4; lucorum 229, 231-4; pratorum 69; terrestris 229-33

Braconidae 10 Bugacia classeyi 83 bumble-bees 184

Callimome pubescens 145

Capellia cecidomyiae, orneus 83 Cataglyphis bicolor 147–56 Cedilla cedilla 34-6

Centrobia fumipennis 75-6

Chaetostricha 76 Chaoilta decorata 34

Cheiropachus quadrum 83

Chelostoma florisomne 57

Chrysididae 52

Chrysis ignita 53; impressa, ruddii, viridula 56

Chrysocharis eurynota, nephereus 104-5; nitetis 105, 107; purpurea 104-5 Cinips aenea 143

Cirrospilus diallus, pictus, vittatus 105 Cleptes semiauriatus 53, 56

Closterocerus trifasciatus 105 Coelioxys mandibularis 218

Coelopisthia pachycera 83 Coelopisthus vitripennis 199

Hybomischos septemcinctorius 164 Colletes daviesanus 56; marginatus 218; Hylaeus communis, confusus, hyalinatus Colletidae 52 Conomorium amplum 197-201; patulum Ichneumon obsoletus 143 197–9; pityocampae 198–201 Crabro, 112; peltaris 69 Crossocerus annulipes, capitosus, Kaleva corynocera 83 cetratus, dimidiatus, elongatulus, Karpinskiella pityophthori 82 megacephalus, nigritus, ovalis, Lasioglossum albipes, calceatum, podagricus, pusillus, quadrimaculatus, cupromicans, lativentris, leucopum, tarsatus 56; vagabundus 53, 56 leucozonium, morio, nitidusculum, Curriea 35; sp. 34 parvulum, rufitarse, smeathmanellum, Cyclogastrella clypealis 83 villosulum 57 Cynips sericeus 70 Lathrolestes citrofrontalis 102-4, 106 Dasypoda altercator 218 Lathromeris scutellaris 75-6 Dibrachys 197; fuscicornis, lignicola 83 Leptogenys distinguenda 222-3; mutabilis Dinotiscus aponius, eupterus 83 221; sp. 222-3 Ligulibracon 35-6; sp. 34 Diodontus minutus 69 Lindenius albilabris 56 Dipogon nitidus, subintermedius, Megachile centuncularis, circumcincta, lignosiea, willoughbiella 57 variegatus 56 Diprion 82 Megachilidae 52 Megalommum 35-6; sp. 34 Dolichovespula media 43–6, 138; saxonica Melecta albifrons 57 Mellinus arvensis 56 Ectemnius 112; cavifrons, cephalotes, Mesopolobus subfurnatus 82 continuus, lapidarius 56 Messa hortulana, nana 104 Entedon armigerae 128; cioni 119; Messor wasmanii 149, 155-6 cyanellus 119, 121; ergias 128; fufius Metacolus azureus 81 121-2; gracilior 125-6; hercyna 120, Metastenus concinnus 83 124; intumescens 119, 121; Metopon atrum, concolor 19; crassispina longiventrosus 123; marci 126-8; 20; punctifrons 19 mecini 122-3; meliloti 120, 123-5; Monodontomerus aeneus 143-5; *anthophorae, *nitidus 145; *obscurus, molybdaenus 125; pallicrus 119, 124; parvicalcar 119; procioni 125; obsoletus 143-5; punctatatus 145 reticulatus 125-6; sparetus 122-3; Mutilla europaea 53, 56 squamosus 128; subimpressus, Mutillidae 52 subovatus 119; sylvestris 119-22; Myrmica ruginodis 50 urticarii 125-6 Myrmosa atra 56, 69; a. erythrocephala 69 Neochalcis fertoni, 164 Entomognathus brevis 56 Nitela borealis 10 Erythromalus nubilipennis 83 Nomada fabriciana, flava, flavoguttata, Eublemma 35 goodeniana 57; lathburiana 53, 57; Eucurriea 35; ornatistigma, sp. 34 leucophthalma, marshamella, panzeri, pleurosticta, ruficornis, rufipes, striata Eumenidae 52 57; tormentillae 53, 57 Euodynerus quadrifasciatus 67–8; Nysson dimidiatus 218; spinosus 56 Odynerus inornatus, lethifer, lugubris 56; Evagetes crassicornis 56 Eyziethelys (subg. n.) 115-6 melanocephalus 68; morio 56; spinipes Fenusa ulmi 104 56, 68 Foersterella flavipes, reptans 32 Omalus aeneus, auratus 56 Gastracanthus pulcherrimus 83 Osmia 143; caerulescens, leaina, rufa 57 Gastrancistrus acontes, longigena 83 Oxybelus argentatus 218 Grypocentrus apicalis 102-3, 106 Gymnomerus laevipes 56 Pandelus flavipes 81 Panstenon agylla 82 Halictus rubicundus 57, 69; tumulorum 57 Passaloecus corniger, gracilis, insignis, singularis 56 Pemphredon clypealis 52; morio 52-3 Pheidologeton sp. 221 Heterarthrus spp. 104 Pimpla contemplator 164 Platygerrhus dolosus, ductilis 83 honey bees 140 Plutothrix scenicus 82

Pnigalio agraules 105 Poecilobracon sp. 34 Polypeza ciliatum, dalgaardi 79-80 Polysphincta vexator 164 Pompilidae 52 Priocnemis exultata, fennica 56; schioedtei 53 Profenusa pygmaea, thomsoni 99-108 Psen dahlbomi 56 Psenulus concolor, pallipes 56 Psilocera atra 19; concolor 16-7, 19; confusa 16-8; crassispina 16-7; obscura 16-7, 19; pandens 16; punctifrons 16-9; rufipes 16; seiugata 16-9 Psithyrus vestalis 229, 233-4 Pteromalus amplus 199-200; curtulus, curtus 20; discors 116–7; eremita 199–200; obumbratus 20; patulus 199; pandens 20; procerus 117; scopas 200; transiens 23 Rhaphitelus maculatus 83 Rhopalicus tutela 83 Rhopalum 112; clavipes 56 Ropalidia montana 139 Roptrocerus brevicornis 82 Sapyga clavicornis 53, 56; quinquepunctata 56 Sapygidae 52 Scambus eucosmidarum 164 Sceptrothelys gracilenta 115-6 Seladerma sabbas 83 Semiotellus diversus 215-7; fumipennis 215-8; laevicollis, mundus 215-7 Shawiania catenator 104-6 Simplicibracon sp. 34 Spalangiopelta alata, procera 82 Sphecidae 52, 92 Sphecodes crassus 69; ephippius, fasciatus, gibbus, hyalinatus, monilicornis 57; pellucidus 57, 69 Spilomena beata 56; troglodytes 56, 69 Stigmus solksyi 56 Symmorphus gracilis, mutinensis 56 Synedrus cavigena 23; crassicornis 23-4 Termolampa pinicola 81 Tetracampe impressa 32 Trichomalopsis albipilosus 82-3 Trichomalus oxygyne 83 Trichrysis cyanea 56 Trigonoderus filatus 82 Trypoxylon attenuatum, clavicerum, figulus 56 Undabracon 34-6 Uscana fumipennis 76; princeps 75 Vespa crabro 157–63, 205; c. altaica, c. birulai, c. caspica 159; c. crabro 158-9; crabroniformis 159; c. flavofasciata 159, 203-5; c. germana 158-9, 203; c. gribodoi 159, 203-5; c. oberthuri 159;

ducalis 157; dybowskii 157, 163;

mandarinia, orientalis, philippinensis 157; simillima 205; tropica, walkeri 157 Vipiellus 35-6; sp. 34 Virgulibraconoides sp. 34 Zdenekiana bisulcata, plana, squama 113

ISOPTERA

termite nests 140

LEPIDOPTERA

brown argus 169 butterflies 38, 61, 92, 98, 171–2, xi Callophrys rubi 77 Caloptilia syringella 57 caterpillars 193 Coleophora 82 Cossus cossus 24, xvii Gracillariidae 104 large heath 169 Lepidoptera 68, 94, 97, 169, 235 Lycaena phlaeas 77-8 moths 61, 92 Nepticulidae 104 Retinia resinella 81 small lappet 169 Thaumetopoea pityocampa, wilkinsoni white admiral 169 wood white 169

MANTODEA

Paratenodera sinensis 257

ODONATA

dragonflies v 'dragonfly' 257

PHASMIDA

Carausius abbreviatus 129-35, 186, 188, 191; mirabilis 186, 188, 191; stromosus Dixippus 129, 130, 187; abbreviatus 131 Hermagoras 187 Heteronemiidae 186

Lonchodes 187; uniformis 129 Lonchodinae 186 Lonchodini 186-7

Phasgania 129, 130, 187; abbreviata 131; everetti 129; spinulosa 185–6, 188 Phasma crawangensis 129 Phenacephorus 185, 187; cornucervi 185–6, 188–9, 191; spinulosus 185–92 Prisomera 187

PLECOPTERA

Spanish stoneflies 206

PSOCOPTERA

Badonnelia titei 118

THYSANURA

Lepisma saccharina 196

TRICHOPTERA

Oxyethira mirabilis 202

GROUPS OTHER THAN INSECTA AND ARACHNIDA

Amphibia 258 Aves 257, 258 Bacteria 258 Crustacea 22 Mammalia 258 Metazoa 258 Myriapoda 22 Pisces 258 Protozoa 258

ERRATA AND CORRIGENDA

Page	Line	For	Read
50	18 (up)	ganglebaueri	ganglbaueri
56	21 (up)	semiaurata	semiauratus
225	16	soerdermani	soedermani
xi	24	Insert 'of' between '(Diptera)' and 'Britain'	



